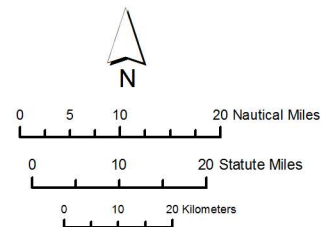


California Marine Life Protection Act (MLPA) Initiative



Legend

- Proposed State Marine Conservation Area (SMCA)
- Proposed State Marine Park (SMP)
- Proposed State Marine Reserve (SMR)
- Proposed State Marine Recreational Management Area (SMRMA)
- Proposed Special Closure
See additional maps and materials.
- North Coast Study Region Boundary



Created by Marine Map Cartographic Division, UCSB.

Date: 03 June 2010

For more information, visit:
<http://www.northcoast.marinemap.org>

Disclaimer:

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California MLPA Initiative
MLPA North Coast Study Region: Round 2 Evaluations
Staff Summary of Area and Habitats in Ruby Draft MPA Proposal 2
Document Created: June 17, 2010

Table 1. Summary of MPAs by Designation for Ruby Draft MPA Proposal 2

| Type of MPA ^a | # of MPAs | Area (mi ²) | % of Study Region |
|--|-----------|-------------------------|-------------------|
| State Marine Reserve (SMR) | 4 | 40.95 | 4.0% |
| State Marine Recreational Managed Area (SMRMA) | 1 | 0.65 | 0.1% |
| State Marine Park (SMP) | 1 | 0.30 | <0.1% |
| State Marine Conservation Area (SMCA) | 6 | 44.44 | 4.3% |
| All MPAs combined | 12 | 86.36 | 8.4% |

^a These are proposed marine protected area (MPA) designations, NOT levels of protection assigned by the MLPA Master Plan Science Advisory Team (SAT). SMRMA is not an MPA designation, but rather a marine managed area designation.

Table 2. Summary of MPAs by Level of Protection for Ruby Draft MPA Proposal 2

| Level of Protection (LOP) | # of MPAs | Area (mi ²) | % of Study Region |
|---------------------------|-----------|-------------------------|-------------------|
| Very High ^b | 4 | 40.95 | 4.0% |
| High | 0 | 0.00 | 0.0% |
| Moderate-High | 2 | 40.90 | 4.0% |
| Moderate | 0 | 0.00 | 0.0% |
| Low ^c | 0 | 0.00 | 0.0% |
| Undetermined ^d | 6 | 4.50 | 0.4% |
| Total | 12 | 86.36 | 8.4% |

^b The "Very High" category includes MPAs with SMR designation, as well as SMRMA designations that do not propose tribal uses.

^c The "Low" category groups together MPAs that are assigned a moderate-low and low level of protection.

^d The "Undetermined" category includes MPAs that propose traditional, non-commercial, tribal uses, but do not identify the species and gear types. These MPAs may or may not have additional proposed allowed uses.

Table 3. Individual MPAs in Ruby Draft MPA Proposal 2

| MPA Name | Size ^e (mi ²) | Alongshore Span ^f (mi) | Depth Range ^g (ft) |
|--|--------------------------------------|-----------------------------------|-------------------------------|
| Pyramid Point SMR | 12.54 | 2.9 | 16 - 124 |
| Pyramid Point SMCA ^h | 1.47 | 2.9 | 0 - 32 |
| Reading Rock Offshore SMCA | 17.47 | 2.9 | 32 - 244 |
| Reading Rock Nearshore SMCA ^h | 1.68 | 2.9 | 0 - 41 |
| South Humboldt Bay SMRMA ^h | 0.65 | N/A | Depth data not available |
| South Cape Mendocino SMR | 9.60 | 1.6 | 0 - 277 |
| Mattole Canyon SMR | 9.69 | 3.5 | 82 - 1646 |
| Petrolia Lighthouse SMR | 9.12 | 1.8 | 0 - 374 |
| Vizcaino SMCA | 23.43 | 6.3 | 0 - 395 |
| Ten Mile Estuary SMCA ^h | 0.19 | N/A | Depth data not available |
| Big River Estuary SMP ^h | 0.30 | N/A | Depth data not available |
| Navarro River Estuary SMCA ^h | 0.20 | N/A | Depth data not available |

^e Size is measured in square statute miles.

^f Alongshore span measured as direct line from one end of the MPA to the other, roughly paralleling the coastline. An alongshore span is not calculated for estuarine MPAs.

^g Comprehensive bathymetric data for all estuaries is not available. Though bathymetric data do exist in portions of some estuaries, depth ranges are not provided for estuarine MPAs for consistency in evaluations.

^h Tribal uses are proposed in this MPA.

Table 4. Habitat Representation in Ruby Draft MPA Proposal 2

| Habitat ⁱ | SMR | | SMRMA | | SMP | | SMCA | | Total MPAs | |
|------------------------|------|-----|-------|-----|------|-----|------|----|------------|----|
| | Area | % | Area | % | Area | % | Area | % | Area | % |
| Intertidal | | | | | | | | | | |
| Sandy or gravel beach* | 0.84 | <1% | 0.00 | 0% | 0.19 | <1% | 9.77 | 5% | 10.80 | 6% |
| Rocky shores* | 3.33 | 2% | 0.27 | <1% | 0.73 | <1% | 5.33 | 3% | 9.66 | 6% |
| Hardened shores* | 0.00 | 0% | 0.00 | 0% | 0.00 | 0% | 0.00 | 0% | 0.00 | 0% |
| Coastal marsh* | 0.00 | 0% | 1.51 | 2% | 3.55 | 4% | 2.94 | 3% | 8.00 | 9% |
| Coastal marsh | 0.00 | 0% | 0.04 | 1% | 0.05 | 1% | 0.06 | 2% | 0.15 | 4% |
| Tidal flats* | 0.00 | 0% | 0.12 | <1% | 0.28 | <1% | 0.36 | 1% | 0.76 | 1% |
| Seagrass beds | | | | | | | | | | |
| Humboldt Eelgrass | 0.00 | 0% | 0.06 | 1% | 0.00 | 0% | 0.00 | 0% | 0.06 | 1% |
| Estuarine | | | | | | | | | | |
| Estuary | 0.00 | 0% | 0.65 | 2% | 0.30 | 1% | 0.39 | 1% | 1.35 | 3% |

*California MLPA North Coast Study Region
Staff Summary of Area and Habitats in Ruby Draft MPA Proposal 2
Document Created: June 17, 2010*

| Habitat ⁱ | SMR | | SMRMA | | SMP | | SMCA | | Total MPAs | |
|--|-------|-----|-------|----|------|-----|-------|-----|------------|-----|
| | Area | % | Area | % | Area | % | Area | % | Area | % |
| Hard bottom | | | | | | | | | | |
| 0-30 meters proxy (original) ^{*j} | 1.20 | 2% | 0.00 | 0% | 0.00 | 0% | 2.53 | 5% | 3.72 | 7% |
| 0-30 meters proxy (revised) ^{*j} | 1.13 | 2% | 0.00 | 0% | 0.00 | 0% | 1.96 | 4% | 3.08 | 6% |
| 15 meter isobath ^{*j} | 1.20 | 2% | 0.00 | 0% | 0.00 | 0% | 2.14 | 4% | 3.34 | 7% |
| 0-30 meters ^j | 0.94 | 3% | 0.00 | 0% | 0.00 | 0% | 1.00 | 3% | 1.94 | 6% |
| 30-100 meters | 5.39 | 16% | 0.00 | 0% | 0.00 | 0% | 0.16 | <1% | 5.56 | 17% |
| 100-200 meters | 0.23 | 33% | 0.00 | 0% | 0.00 | 0% | 0.00 | 0% | 0.23 | 33% |
| >200 meters | 0.02 | 28% | 0.00 | 0% | 0.00 | 0% | 0.00 | 0% | 0.02 | 28% |
| Soft bottom | | | | | | | | | | |
| 0-30 meters proxy (original) ^{*j} | 5.72 | 3% | 0.00 | 0% | 0.00 | 0% | 6.64 | 4% | 12.36 | 7% |
| 0-30 meters proxy (revised) ^{*j} | 5.79 | 3% | 0.00 | 0% | 0.00 | 0% | 7.21 | 4% | 13.00 | 7% |
| 15 meter isobath ^{*j} | 5.84 | 3% | 0.00 | 0% | 0.00 | 0% | 7.16 | 4% | 13.00 | 7% |
| 0-30 meters ^j | 12.38 | 4% | 0.00 | 0% | 0.00 | 0% | 11.65 | 4% | 24.02 | 8% |
| 30-100 meters | 15.67 | 3% | 0.00 | 0% | 0.00 | 0% | 23.28 | 5% | 38.95 | 9% |
| 100-200 meters | 2.57 | 4% | 0.00 | 0% | 0.00 | 0% | 3.92 | 6% | 6.49 | 10% |
| >200 meters | 1.61 | 21% | 0.00 | 0% | 0.00 | 0% | 0.00 | 0% | 1.61 | 21% |
| Unknown | | | | | | | | | | |
| 0-30 meters | 1.85 | 1% | 0.65 | 1% | 0.30 | <1% | 4.39 | 3% | 7.20 | 6% |
| 30-100 meters | 0.28 | 9% | 0.00 | 0% | 0.00 | 0% | 0.04 | 1% | 0.32 | 10% |
| 100-200 meters | 0.00 | 0% | 0.00 | 0% | 0.00 | 0% | 0.00 | 0% | 0.00 | 0% |
| >200 meters | 0.00 | 0% | 0.00 | 0% | 0.00 | 0% | 0.00 | 0% | 0.00 | 0% |
| Other | | | | | | | | | | |
| Offshore rocks [*] | 1.30 | 2% | 0.00 | 0% | 0.00 | 0% | 1.95 | 4% | 3.25 | 6% |
| Canyon | 1.50 | 20% | 0.00 | 0% | 0.00 | 0% | 0.00 | 0% | 1.50 | 20% |
| Linear kelp [*] | 0.19 | <1% | 0.00 | 0% | 0.00 | 0% | 2.17 | 4% | 2.37 | 5% |

ⁱ Habitats are measured as an area (mi²) except for those with a * notation. Habitats with a * notation are expressed in linear units (mi).

^j Four measurements for hard and soft substrate within the 0-30 meter zone have been included here for reference. The MLPA Master Plan Science Advisory Team (SAT) Habitat Work Group is recommending to the full SAT that the revised 0-30 meter proxy line is most appropriate measure for use in the habitat analyses; this approach will be discussed at the June 29-30, 2010 SAT meeting.

Pyramid Point SMR

Allowed uses:
No allowed take.

Pyramid Point SMCA

Allowed uses:
Recreational take of surfperch by hook and line from shore; surf and night smelt by dip net and cast net; redbait surfperch by hook and line from shore.

Tribal uses proposed

Reading Rock Offshore SMCA

Allowed uses:
The recreational take of salmon by troll; Dungeness crab by trap, hoop net; and diving. The commercial take of salmon by troll; and Dungeness crab by trap.

Reading Rock Nearshore SMCA

Allowed uses:
Recreational take of surfperch by hook and line from shore; salmon by troll; Dungeness crab by trap, hoop net and diving; surf and night smelt by dip net; redbait surfperch by hook and line from shore. The commercial take of salmon by troll; and Dungeness crab by trap.

Tribal uses proposed

South Humboldt Bay SMRMA

Allowed uses:
Waterfowl hunting.

Tribal uses proposed

South Cape Mendocino SMR

Allowed uses:
No allowed take.

Mattole Canyon SMR

Allowed uses:
No allowed take.

Sugarloaf Island Special Closure**False Klamath Rock Special Closure****California Marine Life Protection Act (MLPA) Initiative****Legend**

- Proposed State Marine Conservation Area (SMCA)
- Proposed State Marine Park (SMP)
- Proposed State Marine Reserve (SMR)
- Proposed State Marine Recreational Management Area (SMRMA)
- Proposed Special Closure
See additional maps and materials.
- North Coast Study Region Boundary



0 2.5 5 10 Nautical Miles

0 2.5 5 10 Statute Miles

0 5 10 Kilometers

Created by MarineMap Cartographic Division, UCSB.

Date: 12 July 2010

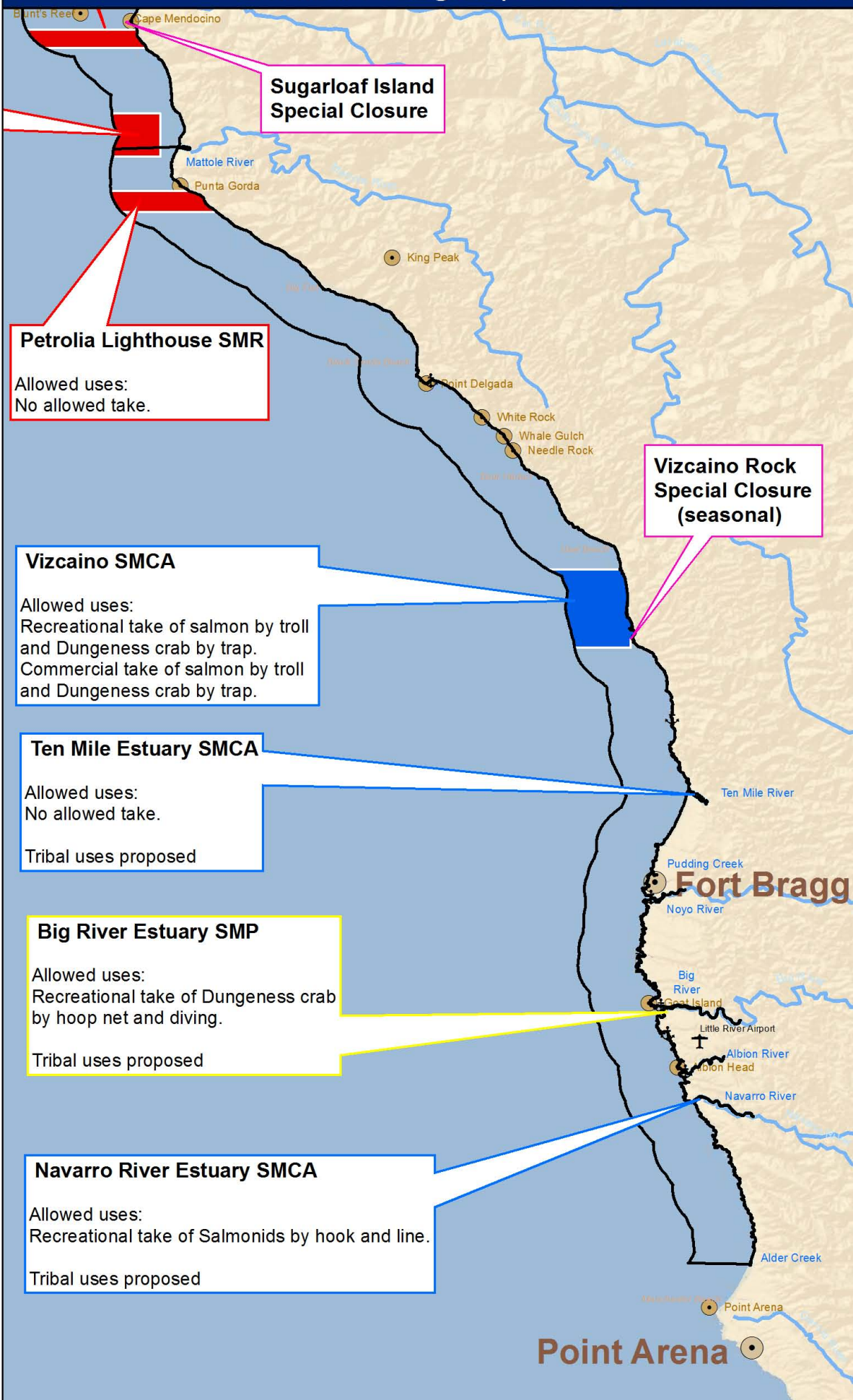
For more information, visit :
<http://www.northcoast.marinemap.org>

Tribal uses proposed:

The NCRSG has proposed to allow "tribal uses" in some MPAs. However, current California law does not provide the legal framework for allowing exclusive "tribal uses" (http://www.dfg.ca.gov/mlpa/meeting_022510.asp). To regulate take in MPAs, species and gear types must be identified and regulations apply to all users as specified.

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California Marine Life Protection Act (MLPA) Initiative



Legend

- Proposed State Marine Conservation Area (SMCA)
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0 2.5 5 10 Nautical Miles

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California Marine Life Protection Act Initiative North Coast Project

Description of MPAs Table for Ruby Draft MPA Proposal 2

This table contains the following information:

- Proposed MPA name and MPA ID
- Bioregion the MPA is located in (northern or southern bioregion)
- Description of boundaries
- Proposed designation type
- Proposed take regulations as well as other proposed regulations
- Site-specific rationale: Brief statement that explains main purpose of MPA
- Other design considerations: Key factors that influenced the design of the MPA
- A table of existing MPAs describing whether each will be retained, modified or removed (last page of this packet)

For more information on Round 2 draft MPA proposals, please visit:
http://www.dfg.ca.gov/mlpa/mpaproposals_nc.asp

California MLPA North Coast Study Region
Round 2: Description of Marine Protected Areas (MPAs) in Ruby Draft MPA Proposal 2
Spreadsheet Created May 27, 2010

Name of Array: Ruby Draft MPA Proposal 2

Author: NCRSG Ruby Gem Group

Proposal Submitted: May 20, 2010

Northern Bioregion: California/Oregon border to Mattole River

Southern Bioregion: Mattole River to Alder Creek near Point Arena

Total number of MPAs:

12

Number of SMRs:

4

Number of SMCAs:

6

Number of SMPs:

1

Number of SMRMAs:

1

Number proposing tribal us

6

| MPA Name | MPA ID | Bioregion | MPA Boundaries (Exact or Approximate) | Designation | Preliminary Level of Protection* | Propose Tribal Uses? | Proposed Take Regulations |
|----------------------------|---------|-----------|---|-------------|--|----------------------------|--|
| Pyramid Point SMR | 1001251 | Northern | North Boundary: The state water boundary West Boundary: The state water boundary South Boundary: North latitude 41 57.500 from west longitude 124 13.000 to extent of state waters East Boundary: West longitude 124 13.000 | SMR | Very High | No | Take of all living marine resources is prohibited. |
| Pyramid Point SMCA | 1001250 | Northern | North Boundary: The state water boundary West Boundary: West longitude 124 13.000 South Boundary: North latitude 41 57.500 from mean high tide line to west longitude 124 13.000 East Boundary: Mean high tide line | SMCA | Undetermined | Yes | The take of all living marine resources is prohibited except: 1. Recreational take of surfperch by hook and line from shore; surf and night smelt by dip net; surf and night smelt by cast net; and redbait surfperch by hook and line from shore. 2. Traditional, non-commercial, tribal gathering, subsistence, harvesting, ceremonial and stewardship activities. |
| Reading Rock Offshore SMCA | 1001567 | Northern | North Boundary: North latitude 41 24.000 extending from west longitude 124 05.000 west to state water boundary. South Boundary: North latitude 41 21.500 extending from west longitude 124 05.000 west to state water boundary. West Boundary: State water boundary East Boundary: West longitude 124 05.000 | SMCA | Moderate High | No | The take of all living marine resources is prohibited except: 1. The recreational take of salmon by troll; Dungeness crab by trap; Dungeness crab by hoop net; and Dungeness crab by diving. 2. The commercial take of salmon by troll; and Dungeness crab by trap. |

SMCA=state marine conservation area SMP=state marine park SMRMA=state marine recreational management area SMR=state marine reserve

* Preliminary LOPs are considered draft and may change based on the SAT's review of allowed uses.

California MLPA North Coast Study Region
Round 2: Description of Marine Protected Areas (MPAs) in Ruby Draft MPA Proposal 2
Spreadsheet Created May 27, 2010

| MPA Name | Other Proposed Regulations | Site-specific Rationale | Other Considerations |
|----------------------------|----------------------------|--|---|
| Pyramid Point SMR | None specified | Protects a diversity of habitats, and several off-shore rocks important for sea bird colonies and waterfowl (Aleutian geese). The reserve will enhance protections for marine mammals and Chinook salmon, steelhead, and threatened southern Oregon/Northern California Coastal Coho stocks, and protect kelp forest, red tail surf perch, smelt, nearshore rockfish, red abalone, razor clams and Dungeness crab. | Provides clear and enforceable boundaries with abundant coastal road, highway and trail access and vantage points. Provides vessel access (Port of Brookings, OR) for study or enforcement. Reduces distance from Crescent City to fishing grounds and improves safety of Crescent City fishers. Reduces economic impacts to sport and commercial fisheries in California's highest poverty level area. This SMR is clustered with the Pyramid Point SMCA and designed to recognize tribal traditional tribal shore uses that have occurred for thousands of years. |
| Pyramid Point SMCA | None specified | Protects a diversity of habitats. Includes rocky shores, beaches, shallow reef, soft bottom, and kelp forest habitats, and several off-shore rocks important for sea bird colonies and waterfowl (Aleutian geese). The SMR/SMCA complex will enhance protections for marine mammals and Chinook salmon, steelhead, and threatened southern Oregon/Northern California Coastal Coho stocks, and protect kelp forest, red tail surf perch, smelt, nearshore rockfish, red abalone, razor clams and Dungeness crab. | The MPA is intended to allow tribal uses and some recreational uses where public access for fishing (shore angling) is one of the primary purposes of the area and where alternative public access for shore angling is very limited. |
| Reading Rock Offshore SMCA | None specified | Combined with the Reading Rock Nearshore SMCA, this conservation area is designed to protect soft and hard bottom communities. | None specified |

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California MLPA North Coast Study Region
Round 2: Description of Marine Protected Areas (MPAs) in Ruby Draft MPA Proposal 2
Spreadsheet Created May 27, 2010

| MPA Name | MPA ID | Bioregion | MPA Boundaries (Exact or Approximate) | Designation | Preliminary Level of Protection* | Propose Tribal Uses? | Proposed Take Regulations |
|--------------------------------|---------|-----------|--|-------------|--|----------------------------|--|
| Reading Rock Nearshore SMCA | 1001566 | Northern | North boundary: North latitude 41 24.000 from the mean high tide west to west longitude 124 05.000 South boundary: North latitude 41 21.500 from the mean high tide line west to west longitude 124 05.000 West boundary: West longitude 124 05.000 East boundary: Mean high tide | SMCA | Undetermined | Yes | The take of all living marine resources is prohibited except: 1. The recreational take of surfperch by hook and line from shore; salmon by troll; Dungeness crab by trap; Dungeness crab by hoop net; Dungeness crab by diving; surf and night smelt by dip net; and redbait surfperch by hook and line from shore. 2. The commercial take of salmon by troll; and Dungeness crab by trap. 3. Traditional, non-commercial, tribal gathering, subsistence, harvesting, ceremonial and stewardship activities. |
| South Humboldt Bay SMRMA | 1001208 | Northern | North Boundary: Landmark, line coming due east of prominent point to west longitude of 124 15.000 South Boundary: Mean high tide line West Boundary: Mean high tide line East Boundary: West longitude 124 15.000 | SMRMA | Undetermined | Yes | The take of all living marine resources is prohibited except: 1. Traditional, non-commercial, tribal gathering, subsistence, harvesting, ceremonial and stewardship activities. |
| South Cape Mendocino SMR | 1001560 | Northern | North Boundary: North latitude 40 25.800 to the extent of state waters West Boundary: The state water boundary South Boundary: North latitude 40 24.500 to the extent of state waters East Boundary: Mean high tide line | SMR | Very High | No | Take of all living marine resources is prohibited. |
| Mattole Canyon SMR | 1001561 | Northern | North Boundary: North latitude 40 20.0 to the extent of state waters West Boundary: The state water boundary South Boundary: North latitude 40 17.0 to the extent of state waters East Boundary: 124 22.5 | SMR | Very High | No | Take of all living marine resources is prohibited. |

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California MLPA North Coast Study Region
Round 2: Description of Marine Protected Areas (MPAs) in Ruby Draft MPA Proposal 2
Spreadsheet Created May 27, 2010

| MPA Name | Other Proposed Regulations | Site-specific Rationale | Other Considerations |
|-----------------------------|---|---|---|
| Reading Rock Nearshore SMCA | None specified | Combined with the Reading Rock Offshore SMCA, this SMCA protects diverse habitats including beaches, soft and hard bottom habitats. | This SMCA is intended to allow tribal uses and some recreational and commercial take. Note that anecdotal accounts indicate more rocky habitat than is depicted in MarineMap. |
| South Humboldt Bay SMRMA | Waterfowl hunting is allowed. Removal of invasive species allowed, including European Green Crab (<i>Carcinus maenas</i>). If a Green Crab fishery should emerge, the Department of Fish and Game should allow the commercial take of that species in this estuary. | Protect estuarine habitats. | This MPA is designed to provide equivalent protection (no commercial or recreational take) as an SMR while allowing tribal uses. This MPA meets or exceeds the science guidelines as follows: Total size=.655 sq miles (Guideline=.12 sq miles). Eelgrass=.06 sq miles (Guideline=.04 sq miles). Coastal Marsh=.04 sq miles (Guideline=.04 sq miles). Designed so that the western and southern boundary are the bay shore and the northern and eastern boundary align with significant and visible shoreline breaks. Potential for Humboldt Bay Recreation and Conservation District to install and maintain a buoy at the hanging corner. |
| South Cape Mendocino SMR | None specified | This MPA was designed to protect biodiversity. | None specified |
| Mattole Canyon SMR | None specified | It has a variety of diverse habitats including upwelling zones, submarine canyons, reef structures, and improves study opportunities provided by marine ecosystems that are subject to minimal human impacts. | Captures off-shore marine canyons on both sides of the bio-regional split. Meets or exceeds sizing guidelines. |

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California MLPA North Coast Study Region
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Spreadsheet Created May 27, 2010

| MPA Name | MPA ID | Bioregion | MPA Boundaries (Exact or Approximate) | Designation | Preliminary Level of Protection* | Propose Tribal Uses? | Proposed Take Regulations |
|----------------------------|---------|-----------|--|-------------|--|----------------------------|---|
| Petrolia Lighthouse SMR | 1001221 | Southern | North Boundary: North latitude 40 14.600 to extent of state waters (Sea lion rock is a landmark) West Boundary: The state water boundary South Boundary: North latitude approximately 40 13.1 to extent of state waters East Boundary: Mean high tide line | SMR | Very High | No | Take of all living marine resources is prohibited. |
| Vizcaino SMCA | 1001562 | Southern | North Boundary: North latitude 39° 48.4' (NE corner: south side of Usal Rock) West Boundary: The state water boundary South Boundary: North latitude 39° 43.000 from west longitude 123 50.000 (line coming directly south from the northwest corner of Vizcaino Rock) to extent of state waters East Boundary: West longitude 123 50.000 at north latitude 39 43.000 going directly north to the northwest corner of Vizcaino Rock (landmark is main boundary) and then directly east to the mean high tide line | SMCA | Moderate High | No | The take of all living marine resources is prohibited except: 1. The recreational take of salmon by troll; and Dungeness crab by trap. 2. The commercial take of salmon by troll; and Dungeness crab by trap. |

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California MLPA North Coast Study Region
Round 2: Description of Marine Protected Areas (MPAs) in Ruby Draft MPA Proposal 2
Spreadsheet Created May 27, 2010

| MPA Name | Other Proposed Regulations | Site-specific Rationale | Other Considerations |
|-------------------------|----------------------------|--|---|
| Petrolia Lighthouse SMR | None specified | The Petrolia Lighthouse SMR protects rocky shores, captures kelp, hard 0-30m and 30-100m habitat, offshore rocks and includes all levels of soft habitat. Additionally, important seabird and sea lion rookeries are protected. | With the SMR going all the way to shore, there are some access issues for recreational use, tribal use, etc. |
| Vizcaino SMCA | None specified | Protect an area rich in primarily rocky shore habitat with a high diversity of benthic species characteristic of the north coast. Marine mammal haulout spots and marine bird rookeries blanket the coastline. Help protect larval sources and enhance reproductive capacity of shelf species including rockfishes. Both soft and hard bottom habitat thresholds are met for 0-30m. Provide protection to area that contains one of most persistent and important upwelling plumes along entire California Coast and provides for significant downstream larval dispersal, which will help restore depleted species. | Socioeconomic impacts were considered when developing the level of protection to allow commercial and recreational crabbing and salmon trolling. The southeastern corner boundary was adjusted to reduce negative socioeconomic impact to the urchin fishery. This MPA is positioned near the center of the bioregion South of Gorda capturing and protecting several key habitats defined by the SAT. |

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California MLPA North Coast Study Region
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Spreadsheet Created May 27, 2010

| MPA Name | MPA ID | Bioregion | MPA Boundaries (Exact or Approximate) | Designation | Preliminary Level of Protection* | Propose Tribal Uses? | Proposed Take Regulations |
|-------------------------------|---------|-----------|---|-------------|--|----------------------------|---|
| Ten Mile Estuary SMCA | 1001563 | Southern | From the mouth of Ten Mile River inland to include all of the estuary in state waters. | SMCA | Undetermined | Yes | The take of all living marine resources is prohibited except: 1. Traditional, non-commercial, tribal gathering, subsistence, harvesting, ceremonial and stewardship activities. |
| Big River Estuary SMP | 1001569 | Southern | Seaward boundary is east of the highway 1 bridge at the old highway abutment on the north side of the river directly south (below catch a canoe) and inland to the extent of state waters boundary. | SMP | Undetermined | Yes | The take of all living marine resources is prohibited except: 1. Recreational take of Dungeness crab by hoop net; and Dungeness crab by diving. 2. Traditional, non-commercial, tribal gathering, subsistence, harvesting, ceremonial and stewardship activities. |
| Navarro River Estuary SMCA | 1001565 | Southern | Mouth of the Navarro River inland to the extent of state waters. | SMCA | Undetermined | Yes | The take of all living marine resources is prohibited except: 1. Recreational take of salmonids by hook and line. 2. Traditional, non-commercial, tribal gathering, subsistence, harvesting, ceremonial and stewardship activities. |

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California MLPA North Coast Study Region
Round 2: Description of Marine Protected Areas (MPAs) in Ruby Draft MPA Proposal 2
Spreadsheet Created May 27, 2010

| MPA Name | Other Proposed Regulations | Site-specific Rationale | Other Considerations |
|----------------------------|---|---|--|
| Ten Mile Estuary SMCA | Removal of invasive species allowed, including European Green Crab (<i>Carcinus maenas</i>). If a Green Crab fishery should emerge, the Department of Fish and Game should allow the commercial take of that species in this estuary. | This SMCA protects larval source and enhance reproductive capacity of numerous invertebrate species such as Dungeness crabs, ghost shrimp et al. Protects spawning and nursery grounds for populations that are harvested offshore. | Estuaries support local fish and shellfish populations that are harvested commercially and recreationally and also serve as spawning and nursery grounds for populations harvested offshore. Estuaries rank along with tropical rainforests and coral reefs as the world's most productive ecosystems, more productive than both the rivers and the ocean that influence them. This MPA expands on long-term protections for complex estuarine habitats, including eelgrass beds, marshlands and mudflat ecosystems. Supports current DFG coho and steelhead salmon habitat conservation projects while protecting essential nursery for federal and state listed threatened anadromous fish including Coho, King and Steelhead salmon. Almost the entire stretch of this MPA is close to population centers, with numerous coastal access points making research, long-term monitoring, recreation and enforcement possible. This MPA is designed to provide equivalent protection (no commercial or recreational take) as an SMR while allowing tribal uses. |
| Big River Estuary SMP | Removal of invasive species allowed. | Estuary habitat preserved; eel grass beds; anadromous fish refugia. | This MPA is designed to allow tribal uses and some recreational uses. Within State Parks boundaries. Key recreational kayaking area. A boost to local economy because estuary is protected. Shorebird habitat protected. |
| Navarro River Estuary SMCA | Removal of invasive species allowed, including European Green Crab (<i>Carcinus maenas</i>). If a Green Crab fishery should emerge, the Department of Fish and Game should allow the commercial take of that species in this estuary. | Estuary protection. Protects fish and invertebrate communities associated with areas of diverse estuarine habitats. Also protects prime shorebirds and waterfowl habitat; feeding areas for pinnipeds, as well as habitat and transportation corridor for river otters. | This MPA is designed to allow tribal uses and some recreational uses. Recreational kayaking and canoeing destination. Attraction to easy proximity to State Park beach and shorebird and mammal viewing. |

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California MLPA Initiative
MLPA North Coast Study Region: Round 2 Evaluations
MPA Goals and Regional Objectives for Ruby Draft MPA Proposal 2
Document created June 17, 2010

The marine protected area (MPA) design process includes setting goals and regional objectives that are consistent with the Marine Life Protection Act (MLPA). During Round 2 of the MLPA North Coast Project, goals were assigned during MPA deliberations and then the objectives were assigned and reviewed by North Coast Regional Stakeholder Group (NCRSG) members after Round 2 had been completed. The north coast goals are taken verbatim from the MLPA itself, and the regional objectives were developed by the NCRSG.¹ The following table includes the goals and regional objectives assigned to each MPA included in Ruby Draft MPA Proposal 2. This document is designed to supplement the Round 2 Description of MPAs spreadsheets found on the Marine Life Protection Act Initiative's webpage (http://www.dfg.ca.gov/mlpa/mpaproposals_nc.asp).

Codes and acronyms used in the table:

G = Goal; O = Objective. Example: G1: (O-1, O-3) would stand for Goal 1, Objectives 1 and 3.

SMCA = state marine conservation area

SMP = state marine park

SMR = state marine reserve

SMRMA = state marine recreational management area

| Proposed MPA Name | Goals and Regional Objectives |
|-----------------------------|---|
| Pyramid Point SMR | G1: (O-2, O-3, O-4), G2: (O-1,O-2), G3: (O-2), G4: (O-1, O-2), G6: (O-1, O-2) |
| Pyramid Point SMCA | G2: (O-1,O-2) |
| Reading Rock Nearshore SMCA | G4: (O-2) |
| Reading Rock Offshore SMCA | G1: (O-2), G4: (O-1,O-2), G6: (O-1) |
| South Humboldt Bay SMRMA | G1: (O4, O5) G2: (O-3) |
| South Cape Mendocino SMR | G1: (O-1, O-2, O-5), G2: (O-2) G3: (O-2), G4: (O-1), G5: (O-4) G6: (O-1, O-2) |
| Mattole Canyon SMR | G1: (O1, O-2, O-3), G3: (O-1) G4: (O-1), G5: (O-1, O-2, O-3), G6: (O-1) |
| Petrolia Lighthouse SMR | G1: (O-1, O-2, O-5), G3: (O-1,O-2), G4: (O-1, O-2), G5: (O-3, O-4) |
| Vizcaino SMCA | G1: (O-2, O-3, O-4), G2: (O-3, O-4) |
| Ten Mile Estuary SMCA | G1: (O-4), G2: (O-3), G3: (O-1, O-3), G4: (O-2), G5: (O-2, O-3) |
| Big River Estuary SMP | G1: (O-4), G2: (O-3), G3: (O-1, O-3), G4: (O-2), G5: (O2, O-3), G6: (O-2) |
| Navarro River Estuary SMCA | G1: (O-3, O-4), G2: (O-3), G3: (O-1, O-3), G4: (O-2), G6: (O-2) |

¹ Document Source: <http://nrm.dfg.ca.gov/FileHandler.ashx?DocumentVersionID=33653>